

IPP Working Group Session

7 April 2010

Camas, WA - PWG F2F Meeting

IPP WG Meeting Agenda



3:00-3:05	Introductions, Minute Taker, Agenda Review
3:05-3:15	Current IPP WG status
3:15-3:45	Discuss IPP Everywhere proposal
3:45-4:15	Discuss Job and Printer Set 2
4:15-4:45	Discuss IPP/2.0 Second Edition
4:45-5:00	Action Items and Next Steps

IPP WG Officers



- IPP WG Chair:
 - Paul Tykodi (TCS)
- IPP WG Secretary:
 - Michael Sweet (Apple)
- IPP WG Document Editors:
 - Tom Hastings (formerly Xerox) – IPP JPS2
 - Ira McDonald (High North) – IPP Version 2.0
 - Mike Sweet (Apple) – IPP Version 2.0

IPP WG Current Status



- IPP Version 2.0 First Edition
 - PWG Candidate Standard – defines IPP/2.0 and IPP/2.1
 - <ftp://ftp.pwg.org/pub/pwg/candidates/cs-ipp20-20090731-5100.10.pdf>
- IPP Printer State Extensions (PSX)
 - PWG Candidate Standard – IPP Printer/Finisher alerts
 - <ftp://ftp.pwg.org/pub/pwg/candidates/cs-ippstate10-20090731-5100.9.pdf>

IPP WG Current Status



- IPP Job and Printer Operations Set2 (JPS2)
 - WG call for prototype experience
 - Resubmit-Job, Cancel-Jobs, Cancel-My-Jobs, Close-Job, job save, proof print, etc.
 - <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippjobprinterext10-v23-20100330-rev.pdf>
- IPP Version 2.0 Project Charter
 - PWG SC Approved – adds IPP Job and Printer Operations Set2
 - <ftp://ftp.pwg.org/pub/pwg/ipp/charter/ch-ippv2-20090819.pdf>
- IPP/2.0 Second Edition
 - Draft posted
 - <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp20-20100226-rev.pdf>

IPP WG Current Status



- IPP Everywhere
 - Draft charter:
<ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeverywhere-charter-20100304.pdf>
 - Updated overview slides:
<ftp://ftp.pwg.org/pub/pwg/ipp/slides/ipp-everywhere-april-10.pdf>

IPP Everywhere



- Announce draft charter and provide this document to PWG membership for a formal vote
 - Requires responses from at least 25% (7) of the PWG membership
 - Need 66% YES votes if there are no strong objections, 80% otherwise
- Draft charter defines two documents:
 - IPP Everywhere requirements
 - IPP Everywhere specification
- Out of scope:
 - No new discovery protocols
 - No new management protocols
 - No new transport protocols

IPP Everywhere Guidelines



- Not supporting every feature and capability of a printer with the standard is OK
 - Print quality
 - User experience
 - Support for all kinds of printers
- Limit the number of optional items
 - Improves interoperability and consistency
 - Will make the standard simpler
- Support wireless clients and printers

IPP Everywhere Guidelines



- As much as possible, base our work on existing standards
 - DNS-SD/Multicast DNS for network discovery
 - IPP/2.0 and HTTP/1.1 for network transport
 - PDF and CUPS Raster (or some variant) for formats
- Provide easy extension support for extra features and capabilities
 - Allow vendors to work WITH the standard instead of around it!

IPP JPS2 Status



- Added Close-Job operation per Feb 2010 F2F
- Updates to definition of job-delay-output-until[-time]

IPP JPS2 Prototyping



- Apple:
 - Intend to implement in a product all required operations and attributes plus the optional job-hold-until-time job template attribute.
- Xerox:
 - Have implemented all required operations and attributes plus several optional job template attributes.

IPP/2.0 Second Edition



- Added back all required sections and tables for IPP/2.2 conformance level from 18 November 2008 draft of IPP/2.0 First Edition
- Restart-Job, Purge-Jobs, and Delete-Document now OPTIONAL and DEPRECATED because they destroy accounting information
- Activate-Printer and Deactivate-Printer now OPTIONAL and DEPRECATED since they are redundant compound operations and are not widely implemented
- Cancel-Jobs, Cancel-My-Jobs, Close-Job, and Resubmit-Job from IPP JPS2 added as REQUIRED

IPP/2.0 Second Edition



- “output-bin-default” and “output-bin-supported” added as REQUIRED (missing in First Edition, “output-bin” was already REQUIRED)
- “printer-device-id” added as REQUIRED
- IPP JPS2 REQUIRED attributes added to IPP/2.2

CUPS ipptool



- <http://www.cups.org/software.php>
- IPP/1.1, IPP/2.0, and IPP/2.1 conformance tests
- Binaries available for Linux, Mac OS X, and Windows
- Simple text-based test files:

```
{  
  NAME "Name of test"  
  OPERATION Get-Printer-Attributes  
  GROUP operation-attributes-tag  
  ATTR charset attributes-charset "utf-8"  
  ATTR naturalLanguage attributes-natural-language "en"  
  ATTR uri printer-uri "$uri"  
  STATUS successful-ok  
  EXPECT printer-uri-supported OF-TYPE uri  
}
```

IPP WG Next Steps



- IPP Job and Printer Operations Set2 (JPS2)
 - Get prototype experience
 - PWG Last Call in Q2 2010 (w/IPP Version 2.0 2nd Ed)
- IPP Version 2.0 Second Edition
 - Review and update drafts
 - PWG Last Call in Q2 2010 (w/JPS2)
- IPP 2.0/2.1/2.2 Interoperability Testing
 - Interoperability event in Q2/Q3 2010
- IPP Everywhere
 - Formal vote among membership to judge interest
 - IPP Everywhere Requirements working draft in Q3 2010
 - IPP Everywhere initial working draft in Q4 2010
 - PWG Last Call on requirements document in Q1 2011
 - IPP Everywhere prototype working draft in Q2 2011

IPP WG Info / Participation



- We welcome participation from all interested parties
- IPP Working Group web page
 - <http://www.pwg.org/ipp/index.html>
- IPP Working Group wiki
 - <http://pwg-wiki.wikispaces.com/IPP>
- Subscribe to the IPP mailing list
 - <http://www.pwg.org/mailhelp.html>
- IPP WG holds bi-weekly phone conferences announced on the IPP mailing list